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| Module  Data Visualisation | Issue Date  26th March 2024 |
| Assessment Objectives   * To demonstrate your knowledge of visualisation principles. * To demonstrate your skills in data exploration and insight using R, PowerBI, * To demonstrate your skills in data visualisation using R, PowerBI, Tableau * To demonstrate your presentation skills * To demonstrate your research and critical thinking skills | |
| **CA 2: Data Visualisation** | |
| Assessment Weighting: 50% | |
| Deadline: (Report 40 %) and (presentation 10%) TBA | |
| **BRIEF:**  Applying your skills in R (or PowerBi or Tableau) produce an analysis of a problem that will engage the reader on both the emotional and rational level. The content/ data for this assignment remains your choice. Support this analysis with careful visuals and narrative. Thoroughly plan the whole design space of your story. You need to deliver Rmd file, the knitted document and the dataset you are using.  The document will require the following structure:   1. Introduction 2. Research Question/s / Problem 3. Rationale 4. Data Presentation 5. Data Manipulation 6. Conclusions   Your data storytelling will have two forms of output:   1. Written (40%): RMarkdown file (circa 2000 words) 2. Oral (10%) – presentation (not longer than max 10 min) –   Assessment Criteria will relate to:   1. Clarity of the problem/ Research Question 2. Structure 3. Data Analysis 4. Data Visualisation 5. Alignment of the data analysis, visuals and narrative 6. Achievement, mastery, cleverness and creativity   Additional, supporting material is provided on BB. The soft copy please send via turnit in. | |
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| **Submission Instructions** | |
| **Hard copy (Word document)** | **Soft copy (power point, Rmd file)** |
| * Submission to be made at the beginning of our Data Visualisation class on the due date * No plastic folders, covers, etc. Staple on top left hand corner of document * Include coversheet with following details:   + Student Name   + Student ID   + Programme title   + Programme code   + Module title   + Lecturer’s name   + Submission date   + Word count | * VIA BB |
| * All work must be submitted to Turnitin. Failure to do so will mean your work is not accepted for grading. * Please familiarise yourself with the IT Carlow Academic Integrity Policy and Plagiarism Regulations (available on Blackboard in the TLC STUDENT HUB). * Harvard Referencing to be applied to all assignments – see TLC STUDENT HUB on Blackboard for referencing guides. Alternatively please look into the Assessment Folder (Credit When Credit is Due) * Please use the following file naming protocol for all soft copy submissions:   + Programme code Student name student number assignment title.docx   + Example: CW906 mary jones C00012345 methodology.docx | |
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| * Deadline dates are final. * Failure to submit on time will result in a zero grade. * Submissions can be made ahead of deadlines with prior arrangement. * Please familiarise yourself with the IT Carlow Policy & Procedure on Late Submission of Assignments. | |
| **References:**   * **Dykes B. (2016), *Data Storytelling; The Essential Data Science Skill Everyone Needs,*** Forbes ; available at: [https://www.forbes.com/sites/brentdykes/2016/03/31/data-storytelling-the-essential-data-science-skill-everyone-needs/#7e482f6a52ad]; Accessed [8.12.2018] | |

The presentation order will be the following (with reverse order):